

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/000936

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7	H03F1/02	H03F3/217	H03F1/30	H03F1/32
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronical databases consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 453 264 A (HOCHSTEIN PETER A) 5 June 1984 (1984-06-05) column 2, line 33 – column 5, line 25; figure 1 ----- EP 0 541 933 A (HARRIS CORP) 19 May 1993 (1993-05-19) column 3, line 44 – column 4, line 44; figure 1 ----- WO 02/078179 A (HARSHMAN INT IND ; STANLEY GERALD R (US)) 3 October 2002 (2002-10-03) the whole document -----	1-12 1-12 1-12

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
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- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

15 June 2004

Date of mailing of the International search report

24/06/2004

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Patent document cited in search report		Publication date	Patent family member(s)			Publication date
US 4453264	A	05-06-1984	NONE			
EP 0541933	A	19-05-1993	US	5150072 A	22-09-1992	
			CA	2075890 A1	16-04-1993	
			DE	69221260 D1	04-09-1997	
			DE	69221260 T2	19-02-1998	
			EP	0541933 A1	19-05-1993	
WO 02078179	A	03-10-2002	EP	1374394 A2	02-01-2004	
			WO	02078179 A2	03-10-2002	
			US	2002167354 A1	14-11-2002	